US Army Corps of Engineers

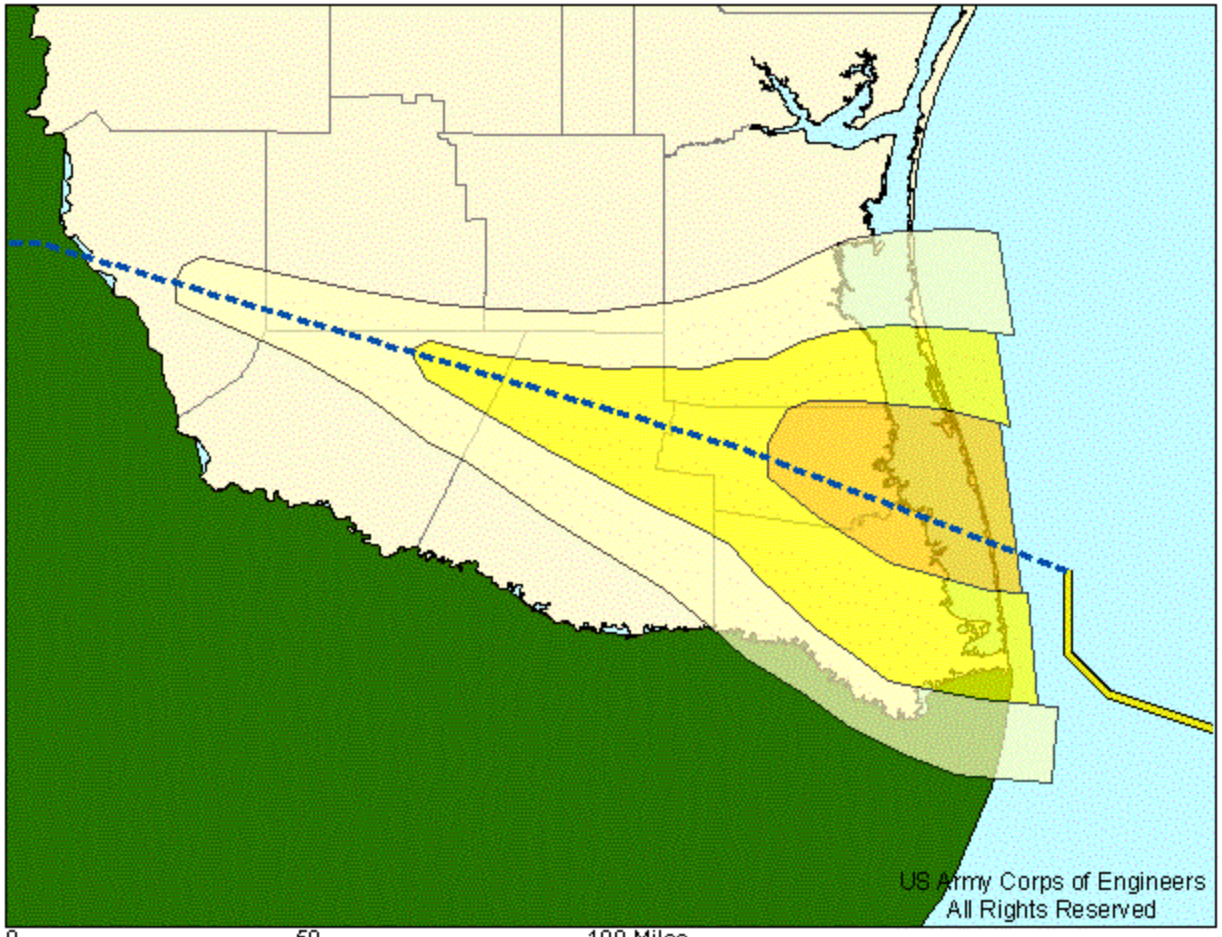
Hurricane dolly Projected Damage Areas

Landfall Has Occurred

For Planning Purposes Only!

Post Landfall Projected Damage Areas

This model is based on a Category 2 storm making landfall north of Brownsville, TX.



Forecast Track
Historic Track

Projected Damage Areas

- CAT 0-type damage
- CAT 1-type damage
- CAT 2-type damage
- CAT 3-type damage
- CAT 4-type damage
- CAT 5-type damage

Information provided on this page displays a Category 2 storm making landfall north of Brownsville, TX. These projections are based on information from the NHC (1100 EDT 07/23/2008) forecast.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

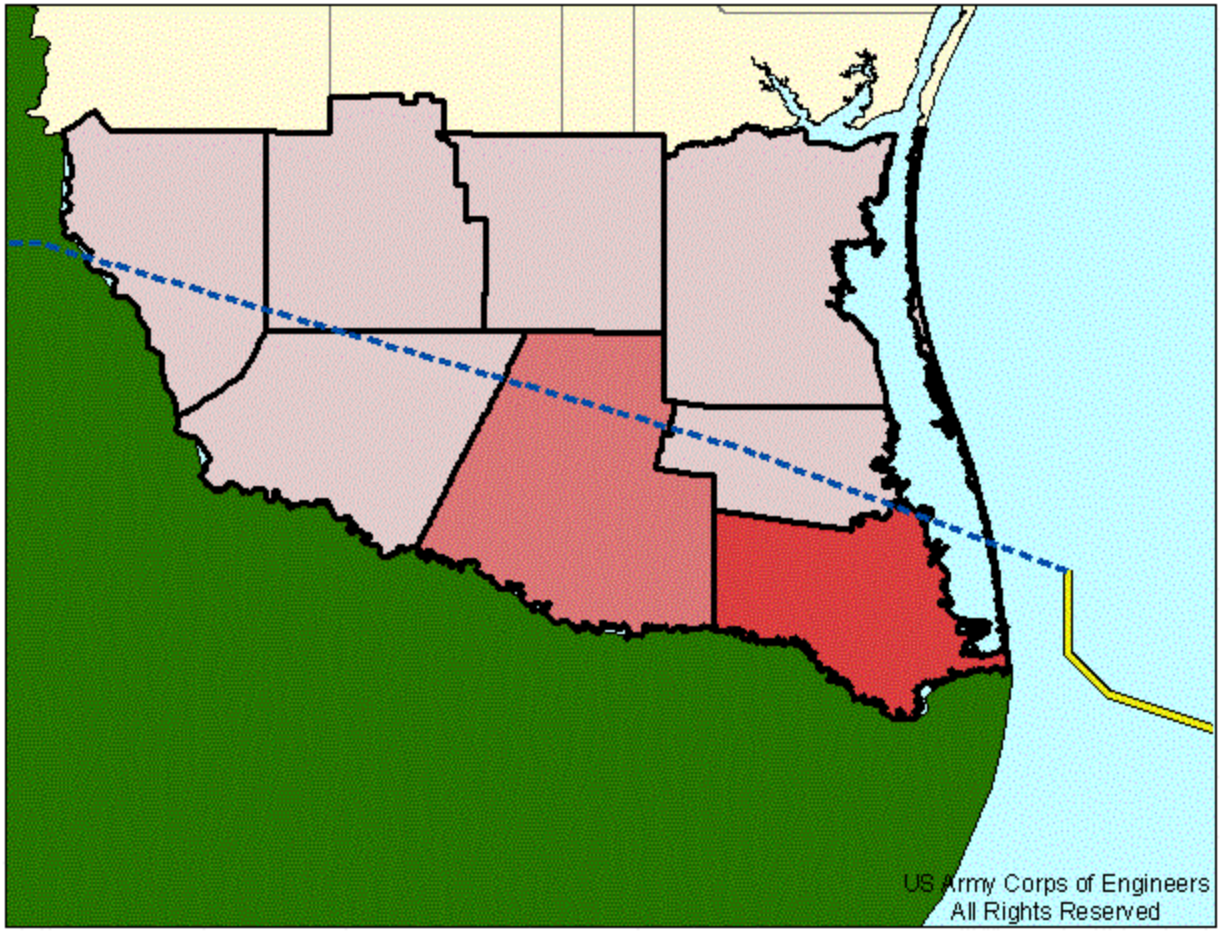
Hurricane dolly Projected Damage Areas	
Generated By: Siemsen, LRL 1330 EDT 07/23/2008	
Sources: HURREVAC LRL-DEBRIS	Page 1 of 13

US Army Corps of Engineers

Hurricane dolly Debris Model

Landfall Has Occurred

For Planning Purposes Only!



Post Landfall Debris Model Results

Texas - 1,279,000 Yards

Model results per County on following page

This model is based on a Category 2 storm making landfall north of Brownsville, TX.

Forecast Track
Historic Track

Debris

- < 100,000 cubic yards
- 100,000 - 249,999 cubic yards
- 250,000 - 499,999 cubic yards
- 500,000 - 999,999 cubic yards
- >1,000,000 cubic yards

Information provided on this page displays a Category 2 storm making landfall north of Brownsville, TX. These projections are based on information from the NHC (1100 EDT 07/23/2008) forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane dolly Debris Model	
Generated By: Siemsen, LRL 1330 EDT 07/23/2008	
Sources: HURREVAC LRL-DEBRIS	

US Army Corps of Engineers

Hurricane dolly Debris Model

Landfall Has Occurred

For Planning Purposes Only!

State	Yards per State	County	Yards per County
Texas		Brooks	< 1,000
		Cameron	856,000
		Hidalgo	322,000
		Jim Hogg	2,000
		Kenedy	< 1,000
		Starr	6,000
		Willacy	91,000
		Zapata	2,000
Texas	1,279,000		

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

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Hurricane dolly Debris Model

Generated By:
Siemsen, LRL 1330 EDT 07/23/2008

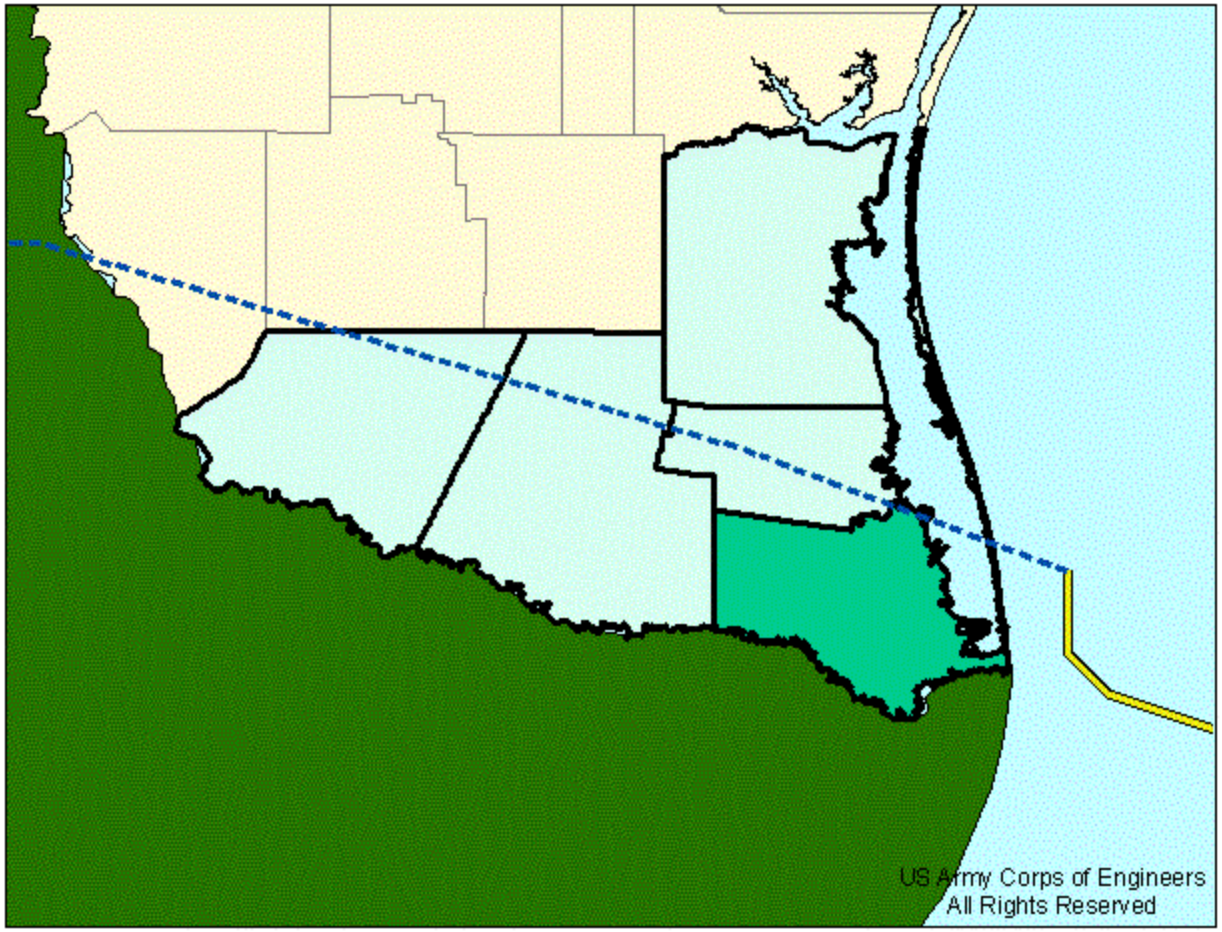
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane dolly Commodities Model

Landfall Has Occurred

For Planning Purposes Only!



Post Landfall Water Model Results

Day One / Day Two / Day Three
Texas - 17 Truckloads

Model results per County on following page

This model is based on a Category 2 storm making landfall north of Brownsville, TX.

Forecast Track
Historic Track

Commodities

- < 5 Trucks Each
- 5 - 10 Trucks Each
- 11 - 20 Trucks Each
- 21 - 40 Trucks Each
- > 40 Trucks Each

Information provided on this page displays a Category 2 storm making landfall north of Brownsville, TX. These projections are based on information from the NHC ***(1100 EDT 07/23/2008)*** forecast. The amount of commodities forecasted is based on Mission Guide Book requirements and SME input. The graphic represents single day needs with full distribution system in place and operating.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane dolly Commodities Model	
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Sources: HURREVAC LRL-DEBRIS	Page 4 of 13

US Army Corps of Engineers

Hurricane dolly Commodities Model

Landfall Has Occurred

For Planning Purposes Only!

State	Truckloads per State	County	Truckloads per County
Texas		Cameron	12
		Hidalgo	1
		Kenedy	1
		Starr	1
		Willacy	2
Texas	17		

The amount of commodities forecasted is based on Mission Guide Book requirements and SME input and the above table indicates suggested needs based on phased deployment of a commodities distribution system.

Details about this model may be obtained at http://www.englink.usace.army.mil
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Hurricane dolly Commodities Model

Generated By:
Siemsen, LRL 1330 EDT 07/23/2008

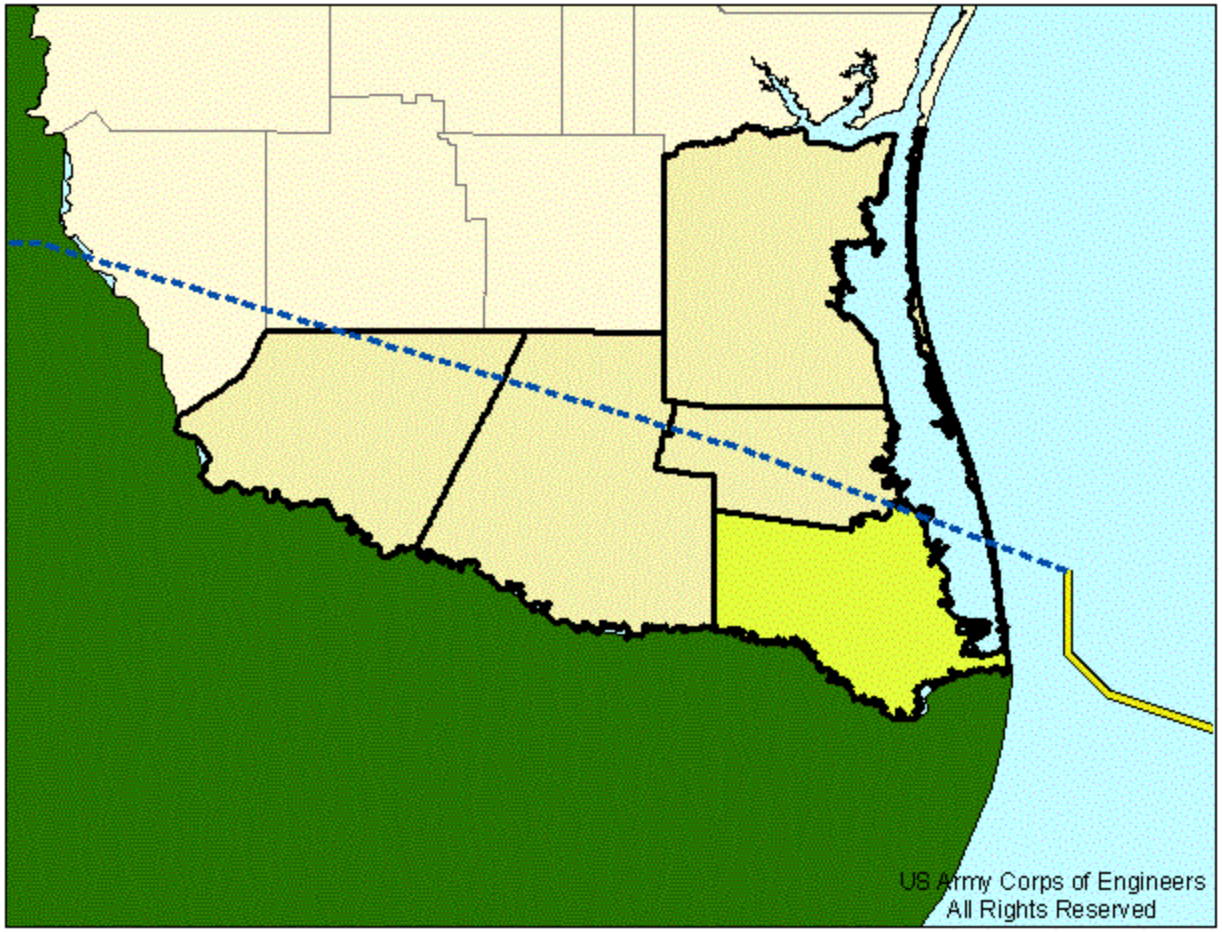
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane dolly Temporary Roofing Model

Landfall Has Occurred

For Planning Purposes Only!



Post Landfall Temporary Roofing Model Results

Texas - 2,900

Model results per County on following page

This model is based on a Category 2 storm making landfall north of Brownsville, TX.

Forecast Track
Historic Track

Temporary Roofing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 2 storm making landfall north of Brownsville, TX. These projections are based on information from the NHC (1100 EDT 07/23/2008) forecast. Temporary roofing is based on 4% in CAT 1 and 7% in CAT 2.

Details about this model may be obtained at http://www.englinkusace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane dolly Roofing Model	
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Sources: HURREVAC LRL-DEBRIS	Page 6 of 13

US Army Corps of Engineers

Hurricane dolly Temporary Roofing Model

Landfall Has Occurred

For Planning Purposes Only!

State	House Units per State	County	House Units per County
Texas		Cameron	2,400
		Hidalgo	200
		Kenedy	< 100
		Starr	< 100
		Willacy	300
Texas	2,900		

Temporary roofing is based on 4% in CAT 1 and 7% in CAT 2.

Details about this model may be obtained at http://www.englink.usace.army.mil
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Hurricane dolly Roofing Model

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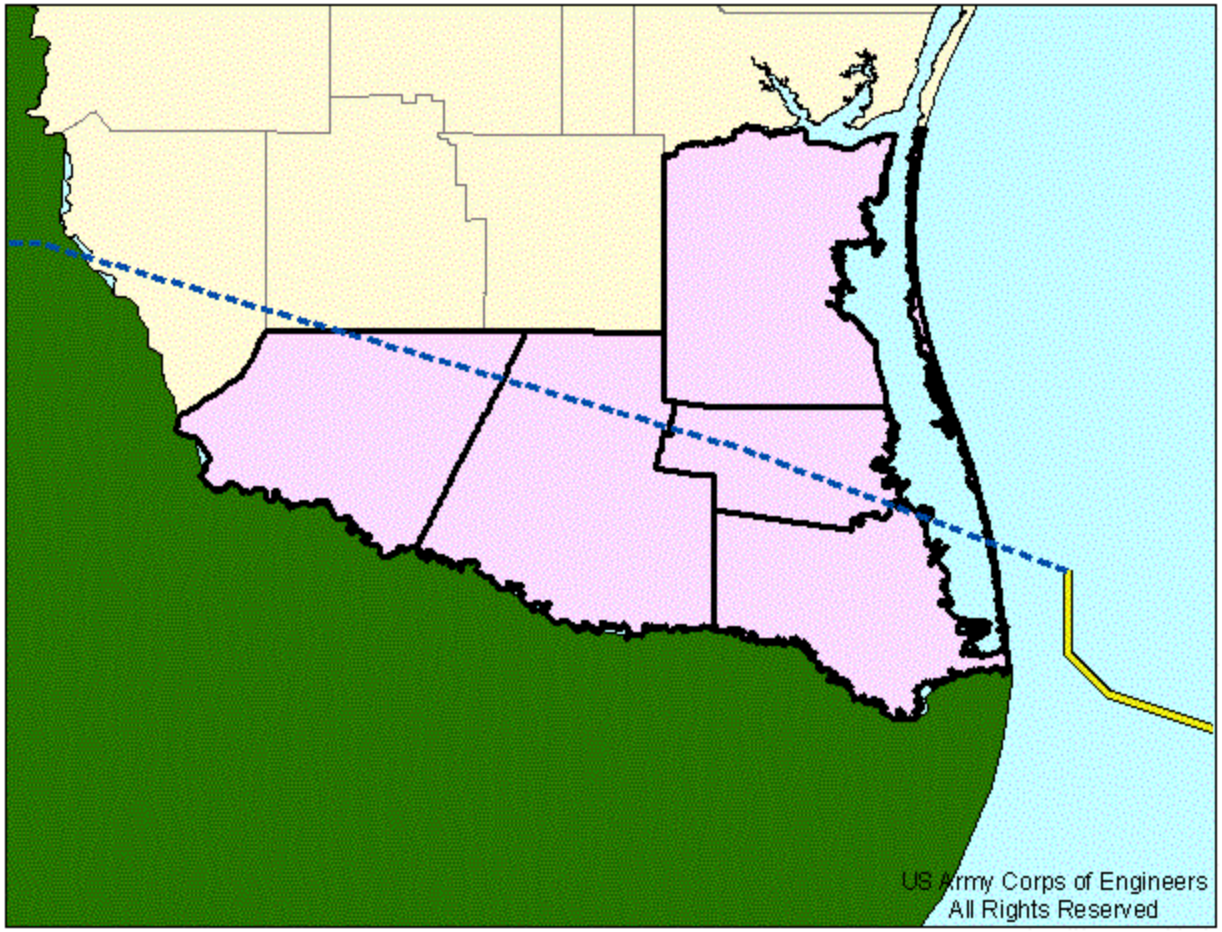
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane dolly Temporary Housing Model

Landfall Has Occurred

For Planning Purposes Only!



Post Landfall Temporary Housing Model Results

Texas - 600

Model results per County on following page

This model is based on a Category 2 storm making landfall north of Brownsville, TX.

Forecast Track
Historic Track

Temporary Housing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 2 storm making landfall north of Brownsville, TX. These projections are based on information from the NHC (1100 EDT 07/23/2008) forecast. Temporary housing is based on 1% in CAT 1.

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Hurricane dolly Housing Model	
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Sources: HURREVAC LRL-DEBRIS	Page 8 of 13

US Army Corps of Engineers

Hurricane dolly Temporary Housing Model

Landfall Has Occurred

For Planning Purposes Only!

State	House Units per State	County	House Units per County
Texas		Cameron	600
		Hidalgo	< 100
		Kenedy	< 100
		Starr	< 100
		Willacy	< 100
Texas	600		

Temporary housing is based on 1% in CAT 1.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane dolly Housing Model

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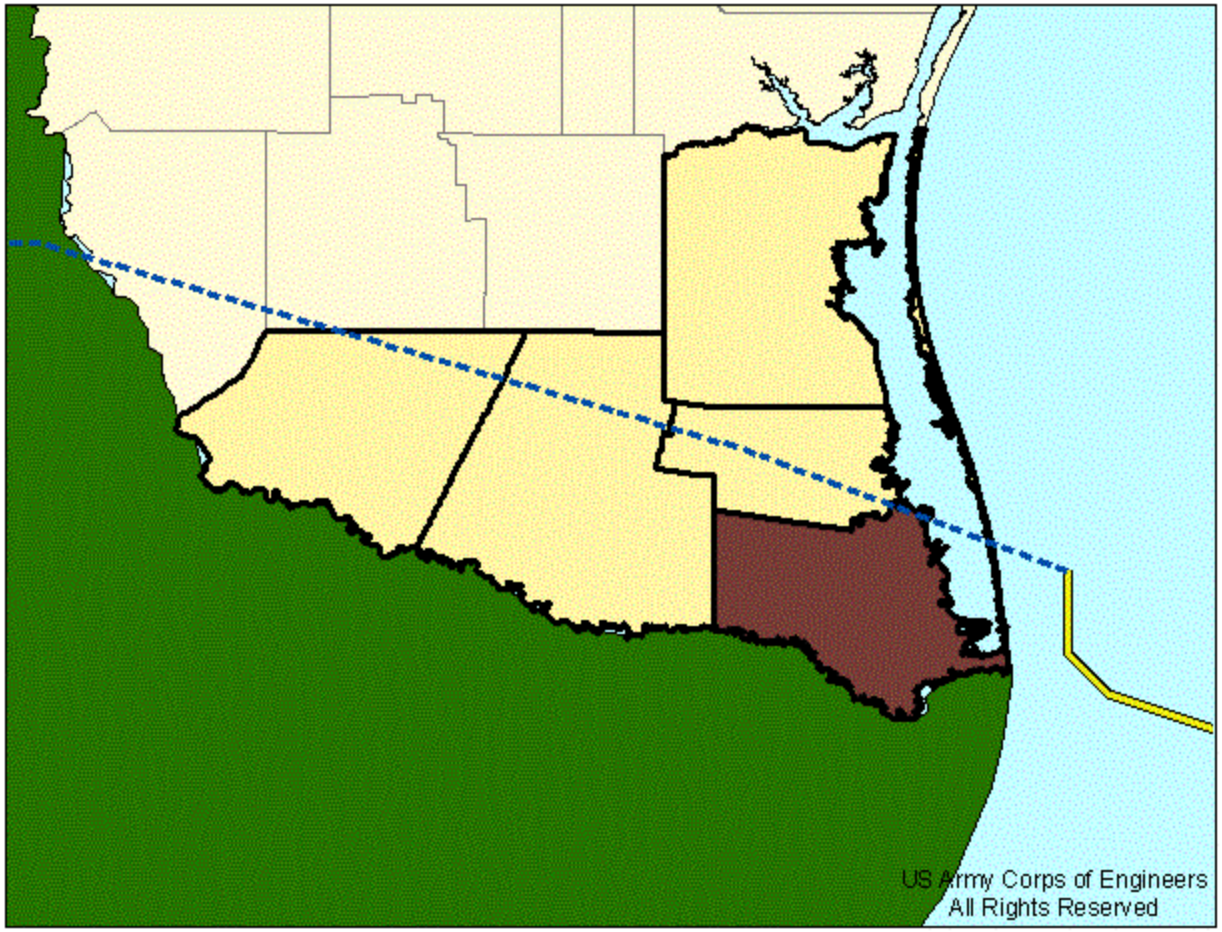
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane dolly Population Model

Landfall Has Occurred

For Planning Purposes Only!



Post Landfall Population Model Results

Texas - 228,000

Model results per County on following page

This model is based on a Category 2 storm making landfall north of Brownsville, TX.

Forecast Track
Historic Track

Population

- < 25,000 persons
- 25,000 - 99,999 persons
- 100,000 - 174,999 persons
- 175,000 - 249,999 persons
- > 250,000 persons

Information provided on this page displays a Category 2 storm making landfall north of Brownsville, TX. These projections are based on information from the NHC (1100 EDT 07/23/2008) forecast. The numbers of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2007 values).

Details about this model may be obtained at http://www.englinkusace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane dolly Population Model	
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Sources: HURREVAC LRL-DEBRIS	Page 10 of 13

US Army Corps of Engineers

Hurricane dolly Population Model

Landfall Has Occurred

For Planning Purposes Only!

State	Population per State	County	Population per County
Texas		Cameron	192,000
		Hidalgo	15,000
		Kenedy	< 1,000
		Starr	< 1,000
		Willacy	21,000
Texas	228,000		

The number of persons estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2007 values.

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Hurricane dolly Population Model

Generated By:
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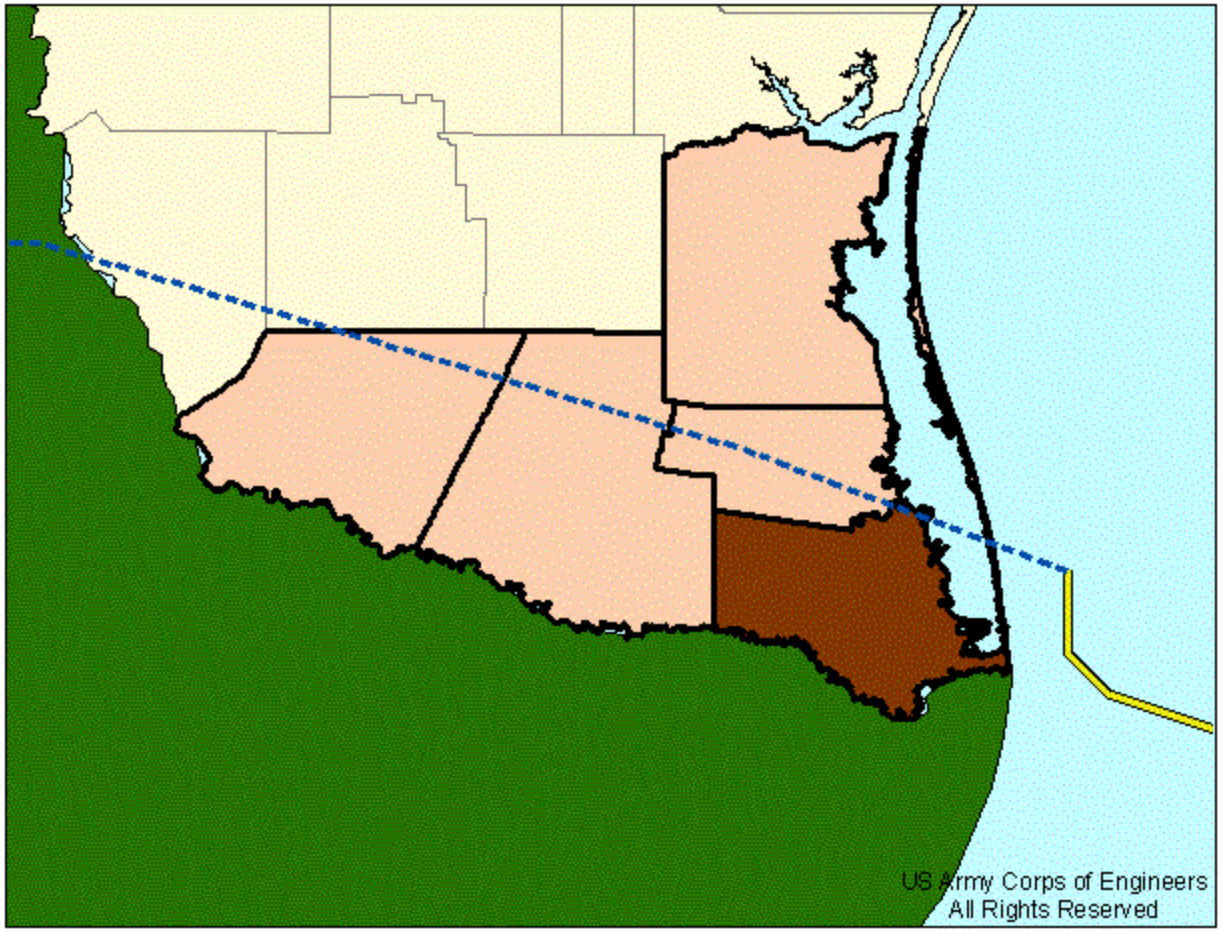
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane dolly Households Model

Landfall Has Occurred

For Planning Purposes Only!



0 50 100 Miles

Post Landfall Households Model Results

Texas - 68,000

Model results per County on following page

This model is based on a Category 2 storm making landfall north of Brownsville, TX.

Forecast Track
Historic Track

Households

- < 7,500 households
- 7,500 - 14,999 households
- 15,000 - 24,999 households
- 25,000 - 49,999 households
- > 50000 households

Information provided on this page displays a Category 2 storm making landfall north of Brownsville, TX. These projections are based on information from the NHC (1100 EDT 07/23/2008) forecast. The numbers of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2007 values).

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Hurricane dolly Households Model	
Generated By: Siemsen, LRL 1330 EDT 07/23/2008	
Sources: HURREVAC LRL-DEBRIS	

US Army Corps of Engineers

Hurricane dolly Households Model

Landfall Has Occurred

For Planning Purposes Only!

State	Households per State	County	Households per County
Texas		Cameron	58,000
		Hidalgo	4,000
		Kenedy	< 1,000
		Starr	< 1,000
		Willacy	6,000
Texas	68,000		

The number of households estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2007 values.

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Hurricane dolly Households Model

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LRL-DEBRIS